



2004 STANDARD DRAWINGS

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Change 2, September 8, 2004

Memorandum UTAH DEPARTMENT OF TRANSPORTATION

DATE: September 8, 2004

TO: Region Directors
Project Engineers
Project Design Engineers
Project Managers
Consultants and Contractors

FROM: Barry Axelrod, CDT
Standards and Specifications

SUBJECT: Standard Drawing [U.S. Standard Unit (Inch-Pound Units)] Change 2 Dated
September 8, 2004

A new index and updated drawings are attached. Please take the following action with respect to the attached pages.

REMOVE

Cover
N/A
Index
N/A
Sheet 1C
BA 2
GW 5
N/A
N/A
N/A
N/A
ST 4

INSERT

Cover - revised for Change Two
Memo - Insert after cover
Index - revised
Listing of Revised Standard Drawings, Change Two
Sheet 1C – revised
BA 2 - revised
None (Replaced by GW 5A, 5B, and 5C)
GW 5A - new
GW 5B - new
GW 5C - new
PV 9 - new
ST 4 - revised

Electronic files for all Standards Drawings are available on the Internet from the “2004 Standards” Web page, under “2004 Standard Drawings.” Individual files are available in Microstation DGN format for download individually or by Series from the “2004 Individual Standard Drawings” link. The Series files are zipped in an EXE file. The entire set of drawings is available in Adobe pdf format from the same area at the “2004 Current Drawings” link. None of the on-line files in either DGN or PDF format have signatures.

If you have any questions or problems with the electronic files contact me at 801-964-4570 or by email at baxelrod@utah.gov.

STANDARD DRAWINGS INDEX (Change 2, Dated 09/08/04)
 UTAH DEPARTMENT OF TRANSPORTATION
 (Current Date for latest change in bold)

U	NUMBER	TITLE	CURRENT DATE
		Advanced Traffic Management System (AT)	
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	AT 3	Ramp Meter Sign Panel	04/29/04
	AT 4	Typical Ramp Meter Signal Head Mounting	03/15/04
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	AT 6	Conduit Details	03/15/04
	AT 7	Polymer-Concrete Junction Box Details	03/15/04
	AT 8	ATMS Cabinet w/120V Disconnect	04/29/04
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	BA 3	Cast In Place Constant Slope Barrier	03/15/04
	BA 4A	W-Beam Guardrail Hardware	03/15/04
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U	NUMBER	TITLE	CURRENT DATE
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	BA 4F	W-Beam Guardrail Typical Divided Roadways	03/15/04
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	BA 4K	W-Beam Guardrail Buried In Backslope Terminal Anchor	03/15/04
	BA 4L	W-Beam Guardrail Curve Details	03/15/04
	BA 4M	W-Beam Guardrail Nested Guardrail 12' 6" Span	03/15/04
	BA 4N	W-Beam Guardrail Nested Guardrail 18' 9" Span	03/15/04
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	CB 2	Curb Inlet Catch Basin	03/15/04
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	CB 6A	Standard Drop Inlet Details General Notes And Installation Details	03/15/04
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	CB 6C	Standard Catch Basin And Cleanout Box Drop Inlet Type "B" Details	03/15/04
	CB 6D	Standard Catch Basin And Cleanout Box Drop Inlet Type "C" Details	03/15/04
	CB 6E	Standard Catch Basin And Cleanout Box Drop Inlet With Attached Apron Details	03/15/04
	CB 6F	Standard Catch Basin And Cleanout Box Drop Inlet With Attached Apron Details	03/15/04
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U	NUMBER	TITLE	CURRENT DATE
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	CB 8A	Double Catch Basin	03/15/04
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	CB 9A	Standard Catch Basin And Cleanout Box Situation And Layout	03/15/04
	CB 9B	Standard Catch Basin And Cleanout Box Section Details	03/15/04
	CB 9C	Standard Catch Basin And Cleanout Box Schedule Of Installation 18" to 42" RCP 12" to 48" CMP	03/15/04
	CB 9D	Standard Catch Basin And Cleanout Box Schedule Of Installation 48" to 66" RCP 60" to 78" CMP	03/15/04
	CB 10A	Standard Catch Basin And Cleanout Box Situation And Layout	03/15/04
	CB 10B	Standard Catch Basin And Cleanout Box Section Details	03/15/04
	CB 10C	Standard Catch Basin And Cleanout Box Schedule Of Installation 42" to 60" RCP 48" to 72" CMP	03/15/04
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	DB 1B	Standard Diversion Box Hinged Lid Details For 18" DIA. or 24" DIA. Pipe	03/15/04
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U	NUMBER	TITLE	CURRENT DATE
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	DB 2C	Standard Diversion Box w/Interchangeable Walls, Hand Slide Gate Details	03/15/04
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	DB 2E	Standard Diversion Box Hinged Lid (Solid Cover Plate) Type "A" Details Type I Plan	03/15/04
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	DB 3A	Standard Diversion Box With Manhole Cover Situation And Layout	03/15/04
	DB 3B	Standard Diversion Box With Manhole Cover Up To 42" RCP And Up To 54" CMP	03/15/04
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		Design Drawings (DD)	
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	DD 2	Surface Ditch, Benched Slope, And Cut Ditch Details	03/15/04
	DD 3	Climbing Lanes	03/15/04
	DD 4	Geometric Design for Freeways (Roadway)	03/15/04
	DD 5	Entrance And Exit Ramps At Crossroads	03/15/04
	DD 6	Entrance And Exit Ramp Geometrics	03/15/04
	DD 7	Freeway Crossover	03/15/04
	DD 8	Structural Geometric Design Standards For Clearances	03/15/04
	DD 9	Structural Geometric Design Standards	03/15/04

U	NUMBER	TITLE	CURRENT DATE
	DD 10	Railroad Clearances At Highway Overpass Structures	03/15/04
	DD 11	Rural Multi Lane Highways Other Than Freeways	04/29/04
	DD 12	Rural Two Lane Highways	04/29/04
	DD 13	Frontage And Access Roads (Under 50 ADT)	04/29/04
	DD 14	Typical Rural 2 Lane Road With Median Lane And Deceleration Lane For Intersecting Crossroads	03/15/04
		Drainage (DG)	
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	DG 2	Fill Height for Metal Pipe (Aluminum)	03/15/04
	DG 3	Maximum Fill Height And End Sections For HDPE And PVC Pipes	03/15/04
	DG 4	Pipe Culverts Minimum Cover	03/15/04
	DG 5	Plastic Pipe, Metal Pipe Or Pipe Arch Culvert Bedding	03/15/04
	DG 6	Precast Concrete Pipe Culvert	03/15/04
	DG 7	Gasketed Joints Or Coupling Bands For CMP	03/15/04
	DG 8	Metal Culvert End Sections	03/15/04
	DG 9	Miscellaneous Pipe Details	03/15/04
		Environmental Controls (EN)	
	EN 1	Temporary Erosion Control (Check Dams)	03/15/04
	EN 2	Temporary Erosion Control (Silt Fence)	03/15/04
	EN 3	Temporary Erosion Control (Slope Drain And Temporary Berm)	03/15/04
	EN 4	Temporary Erosion Control (Drop Inlet Barriers)	03/15/04
	EN 5	Temporary Erosion Control (Sediment Trap And Curb Inlet Barrier)	03/15/04
		Fence And Gates (FG)	
	FG 1A	Right Of Way Fence And Gates (Wood Posts)	03/15/04
	FG 1B	Right Of Way Fence And Gates (Wood Posts)	03/15/04
	FG 2A	Right Of Way Fence And Gates (Metal Posts)	04/29/04
	FG 2B	Right Of Way Fence And Gates (Metal Posts)	03/15/04
	FG 3	Swing Gates Type I for Gates Less Than 17'	03/15/04
	FG 4	Deer Gates	03/15/04

U	NUMBER	TITLE	CURRENT DATE
	FG 5	Swing Gates Type II For Gates Wider Than 17'	03/15/04
	FG 6	Chain Link Fence	03/15/04
		Grates, Frames, And Trash Racks (GF)	
	GF 1	Manhole Frame And Grated Cover	03/15/04
	GF 2	Manhole Frame And Solid Cover	03/15/04
	GF 3	Rectangle Grate And Frame	03/15/04
	GF 4	Directional Flow Grate And Frame	03/15/04
	GF 5	Solid Cover And Frame	04/29/04
	GF 6	Manhole Steps	03/15/04
	GF 7	Standard Screw Grate And Frame	03/15/04
	GF 8	2' x 2' Grate And Frame	03/15/04
	GF 9	28" x 24" Directional Flow Grate And Frame	03/15/04
	GF 10	Standard Trash Racks 90 ° X-ing Angle	03/15/04
	GF 11	Standard Trash Racks	03/15/04
	GF 12	Standard Trash Racks	03/15/04
		General Road Work (GW)	
	GW 1	Raised Median And Plowable End Section	03/15/04
	GW 2	Concrete Curb And Gutter	03/15/04
	GW 3	Concrete Curb And Gutter Details	03/15/04
	GW 4	Concrete Driveways And Sidewalks	03/15/04
	GW 5A	Pedestrian Access	08/26/04
	GW 5B	Pedestrian Access	08/26/04
	GW 5C	Pedestrian Access	08/26/04
	GW 6	Right Of Way Marker	04/29/04
	GW 7	Newspaper And Mailbox Stop Layout	03/15/04
	GW 8	Newspaper And Mailbox Support Hardware	03/15/04
	GW 9	Delineation Hardware	03/15/04
	GW 10	Delineation Application	03/15/04
	GW 11	Sidewalks And Shoulders On Urban Roadways	03/15/04

U	NUMBER	TITLE	CURRENT DATE
		Paving (PV)	
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	PV 3	Concrete Pavement Details For Urban And Interstate	03/15/04
	PV 4	Concrete Pavement Details For Urban And Interstate	03/15/04
	PV 5	Urban Concrete Pavement Details	03/15/04
	PV 6	Rumble Strips	03/15/04
	PV 7	Rumble Strips - Typical Application	03/15/04
	PV 8	Note Used	
	PV 9	Dowel Bar Retrofit	08/26/04
		Signals (SL)	
	SL 1A	Traffic Signal Mast Arm Pole And Luminaire Extension	03/15/04
	SL 1B	Traffic Signal Mast Arm Pole And Luminaire Extension	03/15/04
	SL 2	Traffic Signal Mast Arm Details 30'Thru 75'	03/15/04
	SL 3	Underground Service Pedestal Details	03/15/04
	SL 4	Traffic Signal Mast Arm Pole Foundation	03/15/04
	SL 5	Traffic Signal Pole	03/15/04
	SL 6	Pole Mounted Power Source Details	03/15/04
	SL 7	Span Wire Signal Pole Details	03/15/04
	SL 8	Signal Head Details	03/15/04
	SL 9	Pedestrian Signal Assembly	03/15/04
	SL 10	Traffic Signal Controller Base Details	03/15/04
	SL 11	Traffic Signal Loop Detector Details	03/15/04
	SL 12	Traffic Counting Loop Detector Details	03/15/04
	SL 13	Not Used	
	SL 14	Highway Luminaire Pole Ground Mount	03/15/04
	SL 15	Luminaire Slip Base Details	03/15/04
	SL 16	Highway Luminaire Pole Barrier Mount	03/15/04

U	NUMBER	TITLE	CURRENT DATE
	SL 17	Highway Luminaire Pole Foundation Extension	03/15/04
	SL 18	Single Transformer Substation Details	03/15/04
		Signs (SN)	
	SN 1	Bridge Load Limit Signs	03/15/04
	SN 2	School Speed Limit Assembly	03/15/04
	SN 3	Overhead School Speed Limit Assembly	03/15/04
	SN 4	Flashing Stop Sign	03/15/04
	SN 5	Typical Installation For Milepost Signs	03/15/04
	SN 6	Speed Reduction Sign Sequence	03/15/04
	SN 7	Placement of Ground Mounted Signs	03/15/04
	SN 8	Ground Mounted Timber Sign Post (P1)	03/15/04
	SN 9	Ground Mounted Tubular Steel Sign Post (P2)	03/15/04
	SN 10	Ground Mounted Square Steel Sign Post (P3)	03/15/04
	SN 11	Slipbase Ground Mounted Tubular Steel Sign Post (P4)	03/15/04
	SN 12A	Ground Mounted Sign Installation Details	03/15/04
	SN 12B	Ground Mounted Sign Installation Details	03/15/04
	SN 12C	Ground Mounted Sign Installation Details	03/15/04
		Striping (ST)	
	ST 1	Object Markers "T" Intersection And Pavement Transition Guidance	03/15/04
	ST 2	Freeway Crossover Markings	03/15/04
	ST 3	Typical Pavement Markings	04/29/04
	ST 4	Crosswalks, Parking And Intersection Approaches	08/26/04
	ST 5	Painted Median And Auxiliary Lane Details	03/15/04
	ST 6	Passing/Climbing Lanes Traffic Control	04/29/04
	ST 7	Pavement Markings And Signs At Railroad Crossing	04/29/04
	ST 8	Plowable Pavement Markers	04/29/04
	ST 9	School Crossing And School Message	03/15/04
		Structures And Walls (SW)	
	SW 1A	Welded End Guard Unit	03/15/04

U	NUMBER	TITLE	CURRENT DATE
	SW 1B	Precast Concrete Cattle Guard	03/15/04
	SW 2	Noise Wall Placement Area	03/15/04
	SW 3A	Precast Concrete Noise Wall 1 Of 2	03/15/04
	SW 3B	Precast Concrete Noise Wall 2 Of 2	03/15/04
	SW 4A	Precast Concrete Retaining/Noise Wall 1 Of 2	03/15/04
	SW 4B	Precast Concrete Retaining/Noise Wall 2 Of 2	03/15/04
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	TC 1A	Construction Zone Channelization Devices	03/15/04
	TC 1B	Construction Zone Signing	03/15/04
	TC 2A	Traffic Control General	03/15/04
	TC 2B	Traffic Control General	03/15/04
	TC 3	Traffic Control Project Limit Signing	03/15/04
	TC 4	Traffic Control Urban Intersections With Roadways Under 50 MPH	03/15/04
	TC 5	Traffic Control Urban Intersections With Roadways Under 50 MPH	03/15/04
	TC 6	Traffic Control Pedestrian Routing	03/15/04
	TC 7	Traffic Control Road Closed, Detour	03/15/04
	TC 8	Traffic Control Lane Closure	03/15/04
	TC 9	Traffic Control Multilane Closure	03/15/04
	TC 10	Traffic Control Expressway And Freeway Crossover/Turn-Around	03/15/04
	TC 11	Traffic Control Exit Ramp Gore	03/15/04
	TC 12	Traffic Control Entrance Ramp Gore	03/15/04
	TC 13	Traffic Control Shoulder-Haul Road	03/15/04
	TC 14	Traffic Control Flagging Operation	03/15/04
	TC 15	Traffic Control 2 Lane/2 Way Seal Coat With Cover Material	03/15/04
	TC 16	Traffic Control Pavement Marking	03/15/04

Listing of Revised Standard Drawings

Change One

Revised April 29, 2004

AT 2	Ramp Meter Details	04/29/2004
AT 3	Ramp Meter Sign Panel	04/29/2004
AT 8	ATMS Cabinet W/120V Disconnect	04/29/2004
AT 9	ATMS Cab With Stepdown Transformer	04/29/2004
AT 10	Domed CCTV Details	04/29/2004
AT 13	120V VMS Cab Foundation Details	04/29/2004
AT 14	Weigh In Motion Piezo Details	04/29/2004
BA 4E	W-Beam Guardrail Installations	04/29/2004
CB 1	Standard Catch Basin	04/29/2004
DD 11	Rural Multi Lane Highways Other Than Freeways	04/29/2004
DD 12	Rural Two Lane Highways	04/29/2004
DD 13	Frontage and Access Roads (Under 50 ADT)	04/29/2004
FG 2A	Right of Way Fence and Gates (Metal Post)	04/29/2004
GF 5	Solid Cover and Frame	04/29/2004
GW 6	Right of Way Marker	04/29/2004
ST 3	Typical Pavement Markings	04/29/2004
ST 4	Crosswalks, Parking and Intersection Approaches	04/29/2004
ST 6	Passing/Climbing Lanes Traffic Control	04/29/2004
ST 7	Pavement Markings and Signs at Railroad Crossings	04/29/2004
ST 8	Plowable Pavement Markers	04/29/2004

Change Two

Revised August 26, 2004

BA 2	Precast Concrete Half Barrier Standard Section	08/26/2004
GW 5A	Pedestrian Access	08/26/2004
GW 5B	Pedestrian Access	08/26/2004
GW 5C	Pedestrian Access	08/26/2004
PV 9	Dowel Bar Retrofit	08/26/2004
ST 4	Crosswalks, Parking And Intersection Approaches	08/26/2004

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UTAH DEPARTMENT OF TRANSPORTATION

STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION

DWG. NO.	DESCRIPTION	DATE
	Advanced Traffic Management System (AT)	
AT 1	LEGEND SHEET	03-15-04
AT 2	RAMP METER DETAILS	04-29-04
AT 3	RAMP METER SIGN PANEL	04-29-04
AT 4	TYPICAL RAMP METER SIGNAL HEAD MOUNTING	03-15-04
AT 5	LOOP INSTALLATION	03-15-04
AT 6	CONDUIT DETAILS	03-15-04
AT 7	POLYMER-CONCRETE JUNCTION BOX DETAILS	03-15-04
AT 8	ATMS CABINET W/120V DISCONNECT	04-29-04
AT 9	ATMS CAB WITH STEPDOWN TRANSFORMER	04-29-04
AT 10	DOMED CCTV DETAILS	04-29-04
AT 11	CCTV POLE DETAILS	03-15-04
AT 12	CCTV POLE FOUNDATION FOR DEDICATED CCTV POLE	03-15-04
AT 13	120V VMS CAB FOUNDATION DETAILS	04-29-04
AT 14	WEIGHT IN MOTION PIEZO DETAILS	04-29-04
AT 15	RWIS SITE AND FOUNDATION DETAILS	03-15-04
AT 16	RPU TOWER BASE AND SERVICE PAD LAYOUT	03-15-04
AT 17	GROUND ROD INSTALLATION AND TOWER GROUNDING	03-15-04
	Barriers (BA)	
BA 1A	PRECAST CONCRETE FULL BARRIER STANDARD SECTION	03-15-04
BA 1B	PRECAST CONCRETE FULL BARRIER STANDARD SECTION	03-15-04
BA 2	PRECAST CONCRETE HALF BARRIER STANDARD SECTION	08-26-04
BA 3	CAST IN PLACE CONSTANT SLOPE BARRIER	03-15-04
BA 4A	W-BEAM GUARDRAIL HARDWARE	03-15-04
BA 4B	W-BEAM GUARDRAIL TRANSITION WITH NEW JERSEY BARRIER SHAPE	03-15-04
BA 4C	NOT USED	
BA 4D	W-BEAM GUARDRAIL ANCHOR TYPE 1	03-15-04
BA 4E	W-BEAM GUARDRAIL INSTALLATIONS	04-29-04
BA 4F	W-BEAM GUARDRAIL TYPICALS DIVIDED ROADWAYS	03-15-04
BA 4G	W-BEAM GUARDRAIL TYPICAL MULTILANE ARTERIAL	03-15-04
BA 4H	W-BEAM GUARDRAIL TYPICAL 2 LANE 2 WAY	03-15-04
BA 4I	W-BEAM GUARDRAIL BURIED IN BACKSLOPE TERMINAL	03-15-04
BA 4J	W-BEAM GUARDRAIL BURIED IN BACKSLOPE TERMINAL WITH RUB RAIL	03-15-04
BA 4K	W-BEAM GUARDRAIL BURIED IN BACKSLOPE TERMINAL ANCHOR	03-15-04
BA 4L	W-BEAM GUARDRAIL CURVE DETAILS	03-15-04
BA 4M	W-BEAM GUARDRAIL NESTED GUARDRAIL 12' 6" SPAN	03-15-04
BA 4N	W-BEAM GUARDRAIL NESTED GUARDRAIL 18' 9" SPAN	03-15-04
BA 4O	W-BEAM GUARDRAIL NESTED GUARDRAIL 25' SPAN	03-15-04
BA 4P	W-BEAM GUARDRAIL WITH PRECAST BARRIER FOR SPAN > 25'	03-15-04
	Catch Basins and Cleanouts (CB)	
CB 1	STANDARD CATCH BASIN	04-29-04
CB 2	CURB INLET CATCH BASIN	03-15-04
CB 3	STANDARD TRANSITION CONCRETE LINED DITCH TO PIPE OR DIVERSION BOX	03-15-04

DWG. NO.	DESCRIPTION	DATE
CB 4	SOLID COVER FOR STD DWG DB 1 MS-18 LOADING	03-15-04
CB 5	STANDARD SCREW GATE AND FRAME	03-15-04
CB 6A	STANDARD DROP INLET DETAILS GENERAL NOTES AND INSTALLATION DETAILS	03-15-04
CB 6B	STANDARD CATCH BASIN AND CLEANOUT BOX DROP INLET TYPE "A" DETAILS	03-15-04
CB 6C	STANDARD CATCH BASIN AND CLEANOUT BOX DROP INLET TYPE "B" DETAILS	03-15-04
CB 6D	STANDARD CATCH BASIN AND CLEANOUT BOX DROP INLET TYPE "C" DETAILS	03-15-04
CB 6E	STANDARD CATCH BASIN AND CLEANOUT BOX DROP INLET WITH ATTACHED APRON DETAILS	03-15-04
CB 6F	STANDARD CATCH BASIN AND CLEANOUT BOX DROP INLET WITH ATTACHED APRON DETAILS	03-15-04
CB 6G	STANDARD CATCH BASIN AND CLEANOUT BOX DROP INLET TYPE "D" DETAILS	03-15-04
CB 6H	STANDARD CATCH BASIN AND CLEANOUT BOX DROP INLET TYPE "D" TABLES	03-15-04
CB 7	STANDARD CURB AND GUTTER DROP INLET	03-15-04
CB 8A	DOUBLE CATCH BASIN	03-15-04
CB 8B	DOUBLE CATCH BASIN	03-15-04
CB 9A	STANDARD CATCH BASIN AND CLEANOUT BOX SITUATION AND LAYOUT	03-15-04
CB 9B	STANDARD CATCH BASIN AND CLEANOUT BOX SECTION DETAILS	03-15-04
CB 9C	STANDARD CATCH BASIN AND CLEANOUT BOX SCHEDULE OF INSTALLATION 18" TO 42" RCP 12" TO 48" CMP	03-15-04
CB 9D	STANDARD CATCH BASIN AND CLEANOUT BOX SCHEDULE OF INSTALLATION 48" TO 66" RCP 60" TO 78" CMP	03-15-04
CB 10A	STANDARD CATCH BASIN AND CLEANOUT BOX SITUATION AND LAYOUT	03-15-04
CB 10B	STANDARD CATCH BASIN AND CLEANOUT BOX SECTION DETAILS	03-15-04
CB 10C	STANDARD CATCH BASIN AND CLEANOUT BOX SCHEDULE OF INSTALLATION 42" TO 60" RCP 48" TO 72" CMP	03-15-04
	Crash Cushions (CC)	
CC 1	CRASH CUSHION MARKINGS	03-15-04
CC 2	CRASH CUSHION DRAINAGE DETAILS GUIDELINE A	03-15-04
CC 3	CRASH CUSHION DRAINAGE DETAILS GUIDELINE B	03-15-04
CC 4	DETAIL FOR PLACEMENT CRASH CUSHIONS TYPE A, B AND D	03-15-04
CC 5	GRADING AND PLACEMENT DETAILS CRASH CUSHION TYPE C	03-15-04
CC 6	CRASH CUSHION TYPE E SAND BARREL DETAILS	03-15-04
CC 7	GRADING AND INSTALLATION DETAILS CRASH CUSHION TYPE F	03-15-04
CC 8	GRADING AND INSTALLATION DETAILS CRASH CUSHION TYPE G	03-15-04
CC 9A	GRADING AND INSTALLATION DETAILS CRASH CUSHION TYPE H	03-15-04
CC 9B	GRADING AND INSTALLATION DETAILS CRASH CUSHION TYPE H	03-15-04
	Diversion Boxes (DB)	
DB 1A	STANDARD DIVERSION BOX/COVER PLATE/GRATING FOR 18" DIA. OR 24" DIA. PIPE	03-15-04
DB 1B	STANDARD DIVERSION BOX HINGED LID DETAILS FOR 18" DIA. OR 24" DIA. PIPE	03-15-04
DB 1C	STANDARD DIVERSION BOX BICYCLE-SAFE GRATING DETAILS FOR 18" DIA. OR 24" DIA. PIPE	03-15-04
DB 1D	STANDARD DIVERSION BOX THREE GATE BOX SECTIONS FOR 18" DIA. OR 24" DIA. PIPE	03-15-04
DB 1E	STANDARD DIVERSION BOX THREE GATE BOX SECTIONS FOR 18" DIA. OR 24" DIA. PIPE	03-15-04
DB 1F	STANDARD DIVERSION BOX THREE GATE BOX SECTIONS FOR 18" DIA. OR 24" DIA. PIPE	03-15-04
DB 2A	STANDARD DIVERSION BOX W/INTERCHANGEABLE WALLS, BOTTOM SLAB, WALLS AND APRON DETAILS	03-15-04
DB 2B	STANDARD DIVERSION BOX W/INTERCHANGEABLE WALLS, QUANTITIES SCHEDULE	03-15-04
DB 2C	STANDARD DIVERSION BOX W/INTERCHANGEABLE WALLS, HAND SLIDE GATE DETAILS	03-15-04
DB 2D	STANDARD DIVERSION BOX TYPE "G" HAND SLIDE GATE DETAILS	03-15-04
DB 2E	STANDARD DIVERSION BOX HINGED LID (SOLID COVER PLATE) TYPE "A" DETAILS TYPE I PLAN	03-15-04

DWG. NO.	DESCRIPTION	DATE
DB 2F	STANDARD DIVERSION BOX HINGED LID (SOLID COVER PLATE) TYPE "A" DETAILS TYPE II PLAN	03-15-04
DB 2G	STANDARD DIVERSION BOX HINGED LID SOLID COVER TYPE "B" DETAILS	03-15-04
DB 2H	STANDARD DIVERSION BOX HINGED LID SOLID COVER TYPE "B" AND "C" DETAILS	03-15-04
DB 3A	STANDARD DIVERSION BOX WITH MANHOLE COVER SITUATION AND LAYOUT	03-15-04
DB 3B	STANDARD DIVERSION BOX WITH MANHOLE COVER UP TO 42" RCP AND UP TO 54" CMP	03-15-04
DB 3C	STANDARD DIVERSION BOX WITH MANHOLE COVER 48" TO 72" RCP AND 60" TO 84" CMP	03-15-04
	Design (DD)	
DD 1	SUPERELEVATION AND WIDENING	03-15-04
DD 2	SURFACE DITCH, BENCHED SLOPE, AND CUT DITCH DETAILS	03-15-04
DD 3	CLIMBING LANES	03-15-04
DD 4	GEOMETRIC DESIGN FOR FREEWAYS (ROADWAY)	03-15-04
DD 5	ENTRANCE AND EXIT RAMPS AT CROSSROADS	03-15-04
DD 6	ENTRANCE AND EXIT RAMP GEOMETRICS	03-15-04
DD 7	FREEWAY CROSSOVER	03-15-04
DD 8	STRUCTURAL GEOMETRIC DESIGN STANDARDS FOR CLEARANCES	03-15-04
DD 9	STRUCTURAL GEOMETRIC DESIGN STANDARDS	03-15-04
DD 10	RAILROAD CLEARANCES AT HIGHWAY OVERPASS STRUCTURES	03-15-04
DD 11	RURAL MULTI LANE HIGHWAYS OTHER THAN FREEWAYS	04-29-04
DD 12	RURAL TWO LANE HIGHWAYS	04-29-04
DD 13	FRONTAGE AND ACCESS ROADS (UNDER 50 ADT)	04-29-04
DD 14	TYPICAL RURAL 2 LANE ROAD WITH MEDIAN LANE AND DECELERATION LANE FOR INTERSECTING CROSSROADS	03-15-04
	Drainage (DG)	
DG 1	FILL HEIGHT FOR METAL PIPE (STEEL)	03-15-04
DG 2	FILL HEIGHT FOR METAL PIPE (ALUMINUM)	03-15-04
DG 3	MAXIMUM FILL HEIGHT AND END SECTIONS FOR HDPE AND PVC PIPES	03-15-04
DG 4	PIPE CULVERTS MINIMUM COVER	03-15-04
DG 5	PLASTIC PIPE, METAL PIPE OR PIPE ARCH CULVERT BEDDING	03-15-04
DG 6	PRECAST CONCRETE PIPE CULVERT	03-15-04
DG 7	GASKETTED JOINTS OR COUPLING BANDS FOR CMP	03-15-04
DG 8	METAL CULVERT END SECTION	03-15-04
DG 9	MISCELLANEOUS PIPE DETAILS	03-15-04
	Environmental Controls (EN)	
EN 1	TEMPORARY EROSION CONTROL (CHECK DAMS)	03-15-04
EN 2	TEMPORARY EROSION CONTROL (SILT FENCE)	03-15-04
EN 3	TEMPORARY EROSION CONTROL (SLOPE DRAIN AND TEMPORARY BERM)	03-15-04
EN 4	TEMPORARY EROSION CONTROL (DROP INLET BARRIERS)	03-15-04
EN 5	TEMPORARY EROSION CONTROL (SEDIMENT TRAP AND CURB INLET BARRIER)	03-15-04

☒ MARKED BOXES INDICATE DRAWINGS APPLICABLE TO THIS PROJECT

STANDARD DRAWING INDEX SHEET	STD DWG 1-B	STANDARD DRAWING TITLE	UTAH DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION SALT LAKE CITY, UTAH					REVISIONS			
			REVIEWED AND CHECKED								
			CHECKED AND APPROVAL				AUG.26.2004 DATE				
			STANDARD ENGINEER				AUG.26.2004 DATE				

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UTAH DEPARTMENT OF TRANSPORTATION

STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION

DWG. NO.	DESCRIPTION	DATE
	Fence and Gates (FG)	
FG 1A	RIGHT OF WAY FENCE AND GATES (WOOD POST)	03-15-04
FG 1B	RIGHT OF WAY FENCE AND GATES (WOOD POST)	03-15-04
FG 2A	RIGHT OF WAY FENCE AND GATES (METAL POST)	04-29-04
FG 2B	RIGHT OF WAY FENCE AND GATES (METAL POST)	03-15-04
FG 3	SWING GATES TYPE 1 FOR GATES LESS THAN 17'	03-15-04
FG 4	DEER GATES	03-15-04
FG 5	SWING GATES TYPE II FOR GATES WIDER THAN 17'	03-15-04
FG 6	CHAIN LINK FENCE	03-15-04
	Grates, Frames and Trash Racks (GF)	
GF 1	MANHOLE FRAME AND GRATED COVER	03-15-04
GF 2	MANHOLE FRAME AND SOLID COVER	03-15-04
GF 3	RECTANGULAR GRATE AND FRAME	03-15-04
GF 4	DIRECTIONAL FLOW GRATE AND FRAME	03-15-04
GF 5	SOLID COVER AND FRAME	04-29-04
GF 6	MANHOLE STEPS	03-15-04
GF 7	STANDARD SCREW GATE AND FRAME	03-15-04
GF 8	2' x 2' GRATE AND FRAME	03-15-04
GF 9	28" x 24" DIRECTIONAL FLOW GRATE AND FRAME	03-15-04
GF 10	STANDARD TRASH RACKS 90° X-ING ANGLE	03-15-04
GF 11	STANDARD TRASH RACKS	03-15-04
GF 12	STANDARD TRASH RACKS	03-15-04
	General Road Work (GW)	
GW 1	RAISED MEDIAN AND PLOWABLE END SECTION	03-15-04
GW 2	CONCRETE CURB AND GUTTER	03-15-04
GW 3	CONCRETE CURB AND GUTTER DETAILS	03-15-04
GW 4	CONCRETE DRIVEWAYS AND SIDEWALKS	03-15-04
GW 5A	PEDESTRIAN ACCESS	08-26-04
GW 5B	PEDESTRIAN ACCESS	08-26-04
GW 5C	PEDESTRIAN ACCESS	08-26-04
GW 6	RIGHT OF WAY MARKER	04-29-04
GW 7	NEWSPAPER AND MAILBOX STOP LAYOUT	03-15-04
GW 8	NEWSPAPER AND MAILBOX SUPPORT HARDWARE	03-15-04
GW 9	DELINEATION HARDWARE	03-15-04
GW 10	DELINEATION APPLICATION	03-15-04
GW 11	SIDEWALKS AND SHOULDERS ON URBAN ROADWAYS	03-15-04

DWG. NO.	DESCRIPTION	DATE
	Paving (PV)	
PV 1	JOINTS FOR HIGHWAYS WITH CONCRETE TRAFFIC LANES AND SHOULDERS	03-15-04
PV 2	PAVEMENT/APPROACH SLAB DETAILS	03-15-04
PV 3	CONCRETE PAVEMENT DETAILS FOR URBAN AND INTERSTATE	03-15-04
PV 4	CONCRETE PAVEMENT DETAILS FOR URBAN AND INTERSTATE	03-15-04
PV 5	URBAN CONCRETE PAVEMENT DETAILS	03-15-04
PV 6	RUMBLE STRIPS	03-15-04
PV 7	RUMBLE STRIPS-TYPICAL APPLICATION	03-15-04
PV 8	NOT USED	
PV 9	DOWEL BAR RETROFIT	08-26-04
	Signals (SL)	
SL 1A	TRAFFIC SIGNAL MAST ARM POLE AND LUMINAIRE EXTENSION	03-15-04
SL 1B	TRAFFIC SIGNAL MAST ARM POLE AND LUMINAIRE EXTENSION	03-15-04
SL 2	TRAFFIC SIGNAL MAST ARM DETAILS 30' THRU 75'	03-15-04
SL 3	UNDERGROUND SERVICE PEDESTAL DETAILS	03-15-04
SL 4	TRAFFIC SIGNAL MAST ARM POLE FOUNDATION	03-15-04
SL 5	TRAFFIC SIGNAL POLE	03-15-04
SL 6	POLE MOUNTED POWER SOURCE DETAILS	03-15-04
SL 7	SPAN WIRE SIGNAL POLE DETAILS	03-15-04
SL 8	SIGNAL HEAD DETAILS	03-15-04
SL 9	PEDESTRIAN SIGNAL ASSEMBLY	03-15-04
SL 10	TRAFFIC SIGNAL CONTROLLER BASE DETAILS	03-15-04
SL 11	TRAFFIC SIGNAL LOOP DETECTOR DETAILS	03-15-04
SL 12	TRAFFIC COUNTING LOOP DETECTOR DETAILS	03-15-04
SL 13	NOT USED	
SL 14	HIGHWAY LUMINAIRE POLE GROUND MOUNT	03-15-04
SL 15	LUMINAIRE SLIP BASE DETAILS	03-15-04
SL 16	HIGHWAY LUMINAIRE POLE BARRIER MOUNT	03-15-04
SL 17	HIGHWAY LUMINAIRE POLE FOUNDATION EXTENSION	03-15-04
SL 18	SINGLE TRANSFORMER SUBSTATION DETAILS	03-15-04
	Signs (SN)	
SN 1	BRIDGE LOAD LIMITS SIGNS	03-15-04
SN 2	SCHOOL SPEED LIMIT ASSEMBLY	03-15-04
SN 3	OVERHEAD SCHOOL SPEED LIMIT ASSEMBLY	03-15-04
SN 4	FLASHING STOP SIGN	03-15-04
SN 5	TYPICAL INSTALLATION FOR MILEPOST SIGNS	03-15-04
SN 6	SPEED REDUCTION SIGN SEQUENCE	03-15-04
SN 7	PLACEMENT OF GROUND MOUNTED SIGNS	03-15-04
SN 8	GROUND MOUNTED TIMBER SIGN POST (P1)	03-15-04
SN 9	GROUND MOUNTED TUBULAR STEEL SIGN POST (P2)	03-15-04
SN 10	GROUND MOUNTED SQUARE STEEL SIGN POST (P3)	03-15-04
SN 11	SLIPBASE GROUND MOUNTED TUBULAR STEEL SIGN POST (P4)	03-15-04
SN 12A	GROUND MOUNTED SIGN INSTALLATION DETAILS	03-15-04
SN 12B	GROUND MOUNTED SIGN INSTALLATION DETAILS	03-15-04
SN 12C	GROUND MOUNTED SIGN INSTALLATION DETAILS	03-15-04

DWG. NO.	DESCRIPTION	DATE
	Striping (ST)	
ST 1	OBJECT MARKERS "T" INTERSECTION AND PAVEMENT TRANSITION GUIDANCE	03-15-04
ST 2	FREEWAY CROSSOVER MARKINGS	03-15-04
ST 3	TYPICAL PAVEMENT MARKINGS	04-29-04
ST 4	CROSSWALKS, PARKING AND INTERSECTION APPROACHES	08-26-04
ST 5	PAINTED MEDIAN AND AUXILIARY LANE DETAILS	03-15-04
ST 6	PASSING/CLIMBING LANES TRAFFIC CONTROL	04-29-04
ST 7	PAVEMENT MARKINGS AND SIGNS AT RAILROAD CROSSING	04-29-04
ST 8	PLOWABLE PAVEMENT MARKERS	04-29-04
ST 9	SCHOOL CROSSING AND SCHOOL MESSAGE	03-15-04
	Structures and Walls (SW)	
SW 1A	WELDED END GUARD UNIT	03-15-04
SW 1B	PRECAST CONCRETE CATTLE GUARD	03-15-04
SW 2	NOISE WALL PLACEMENT AREA	03-15-04
SW 3A	PRECAST CONCRETE NOISE WALL 1 OF 2	03-15-04
SW 3B	PRECAST CONCRETE NOISE WALL 2 OF 2	03-15-04
SW 4A	PRECAST CONCRETE RETAINING/NOISE WALL 1 OF 2	03-15-04
SW 4B	PRECAST CONCRETE RETAINING/NOISE WALL 2 OF 2	03-15-04
	Traffic Control (TC)	
TC 1A	CONSTRUCTION ZONE CHANNELIZATION DEVICES	03-15-04
TC 1B	CONSTRUCTION ZONE SIGNING	03-15-04
TC 2A	TRAFFIC CONTROL GENERAL	03-15-04
TC 2B	TRAFFIC CONTROL GENERAL	03-15-04
TC 3	TRAFFIC CONTROL PROJECT LIMIT SIGNING	03-15-04
TC 4	TRAFFIC CONTROL URBAN INTERSECTION WITH ROADWAYS UNDER 50 MPH	03-15-04
TC 5	TRAFFIC CONTROL URBAN INTERSECTION WITH ROADWAYS UNDER 50 MPH	03-15-04
TC 6	TRAFFIC CONTROL PEDESTRIAN ROUTING	03-15-04
TC 7	TRAFFIC CONTROL ROAD CLOSED, DETOUR	03-15-04
TC 8	TRAFFIC CONTROL LANE CLOSURE	03-15-04
TC 9	TRAFFIC CONTROL MULTILANE CLOSURE	03-15-04
TC 10	TRAFFIC CONTROL EXPRESSWAY AND FREEWAY CROSSOVER/TURN AROUND	03-15-04
TC 11	TRAFFIC CONTROL EXIT RAMP GORE	03-15-04
TC 12	TRAFFIC CONTROL ENTRANCE RAMP GORE	03-15-04
TC 13	TRAFFIC CONTROL SHOULDER-HAUL ROAD	03-15-04
TC 14	TRAFFIC CONTROL FLAGGING OPERATION	03-15-04
TC 15	TRAFFIC CONTROL 2 LANE / 2 WAY SEAL COAT WITH COVER MATERIAL	03-15-04
TC 16	TRAFFIC CONTROL PAVEMENT MARKING	03-15-04

☒ MARKED BOXES INDICATE DRAWINGS APPLICABLE TO THIS PROJECT

UTAH DEPARTMENT OF TRANSPORTATION
STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION
SALT LAKE CITY, UTAH

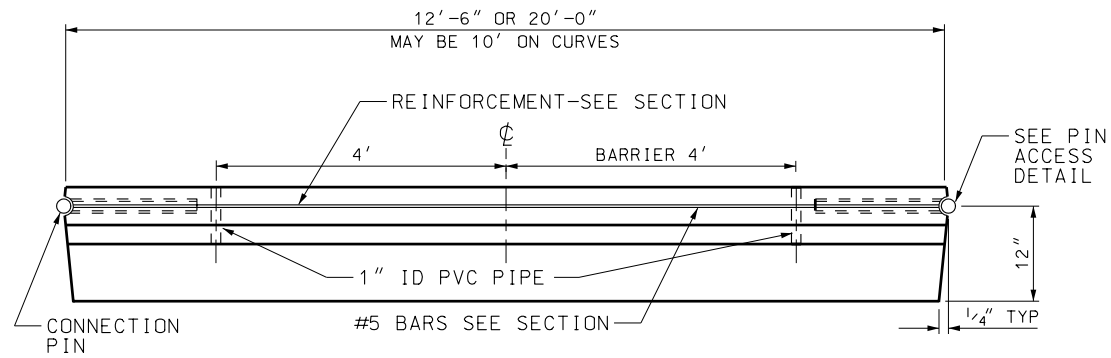
REVISIONS
1 04/29/04 B.A. CHANGE 1
2 08/26/04 B.A. CHANGE 2

REVIEWED AND CHECKED
CHECKED AND APPROVAL
STANDARD ENGINEER

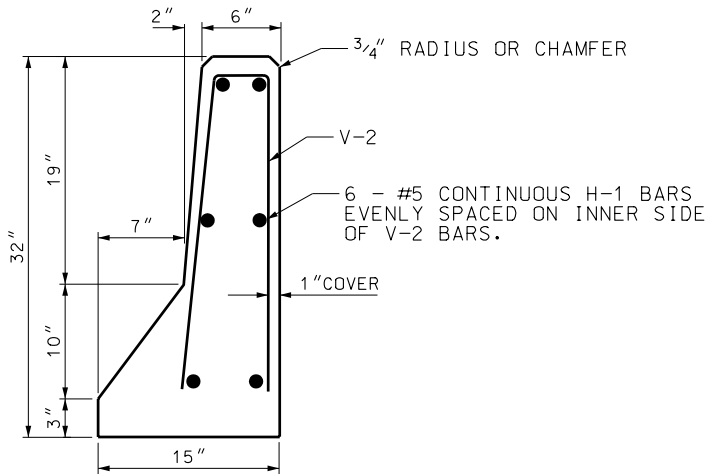
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DATE
AUG.26.2004

STANDARD DRAWING TITLE
1-C

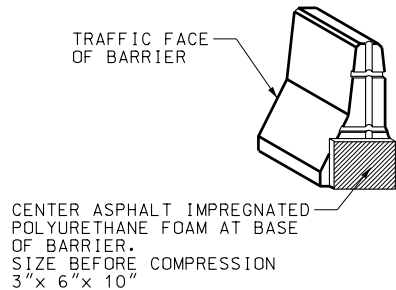
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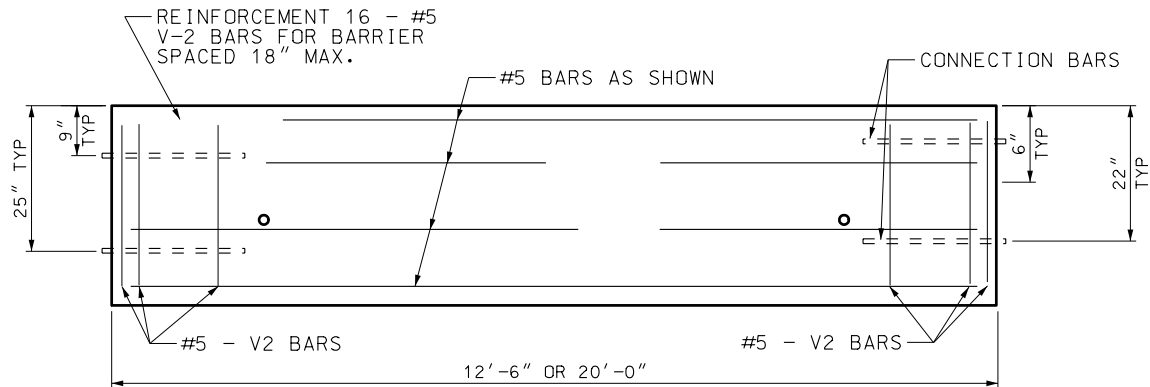
PLAN ELEVATION



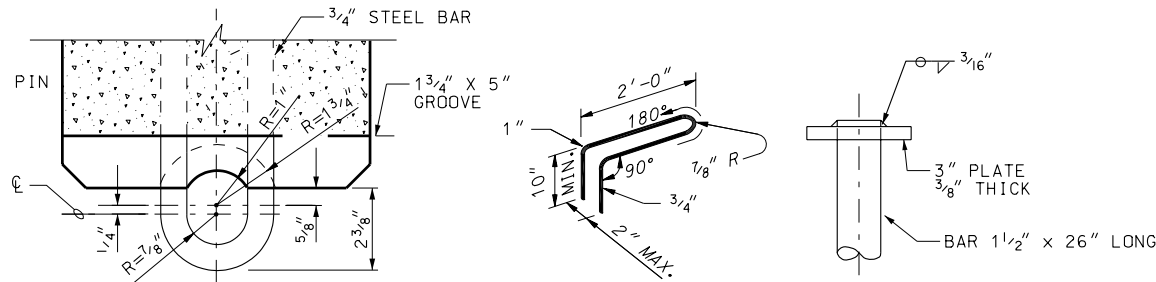
END ELEVATION



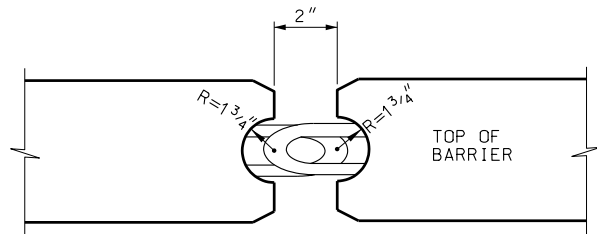
BARRIER SEAL



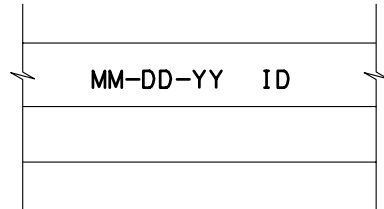
FRONT ELEVATION



CONNECTION DETAILS



PIN ACCESS DETAIL

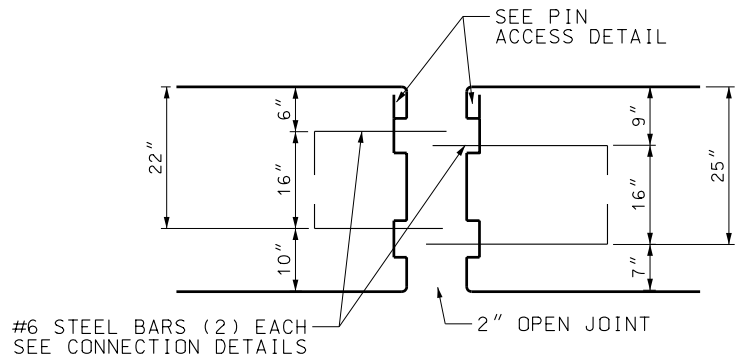


BARRIER MARKINGS
SEE NOTE 6

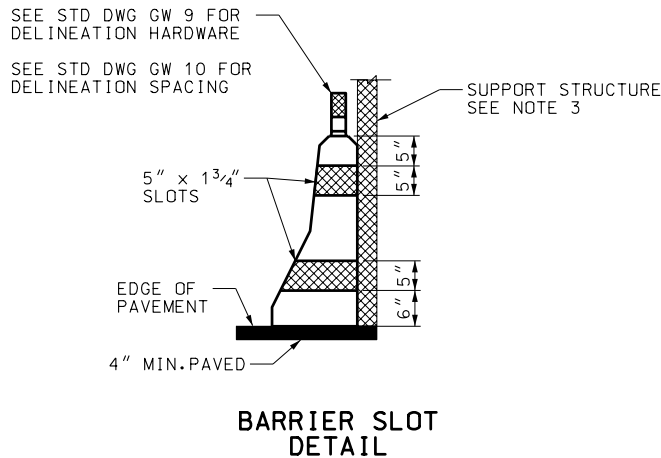
METAL REINFORCEMENT TABLE				
MARK	LOCATION	BAR SIZE	NO. BARS	SKETCH
H-1	HORIZONTAL IN BARRIER TIED INSIDE V-1 BARS	#5	6	19'-3"
V-2	VERTICAL IN BARRIER (3) EACH END	#5	16	

NOTES:

1. USE 3/4" RADIUS ON CHAMFER ON EXPOSED CONCRETE CORNER.
2. PLACE AN ADEQUATE AMOUNT OF SILICONE ADHESIVE ON BOTTOM OF WASHER BEFORE INSERTING PIN TO HOLD IN PLACE AND PREVENT EASY HAND REMOVAL.
3. PLACE PRECAST HALF BARRIER WHERE THERE IS A SUPPORT STRUCTURE BEHIND EACH SECTION (IE: SOUND WALL, MSE WALL)
4. DO NOT USE PRECAST HALF BARRIER AS AN ALTERNATE, OR IN CONJUNCTION WITH PRECAST CONCRETE FULL BARRIER SECTION IN A WORK ZONE.
5. USE COATED REINFORCING STEEL EXCEPT AS NOTED.
6. MARK EACH BARRIER WITH 2" NUMBERS INDICATE THE DATE OF CASTING AND IDENTIFICATION NUMBER SUPPLIED BY THE INSPECTOR, IMPRESSED 1/4" DEEP INTO THE TOP CENTER OF THE BARRIER.



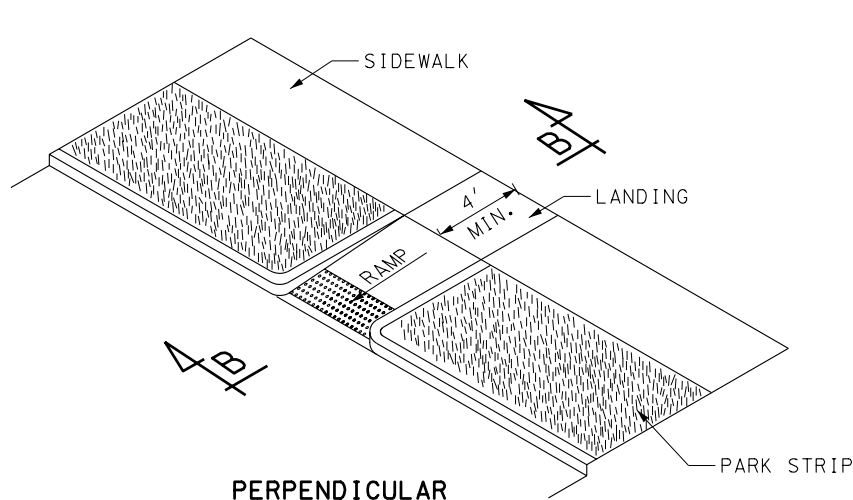
LOOP LOCATION ELEVATION



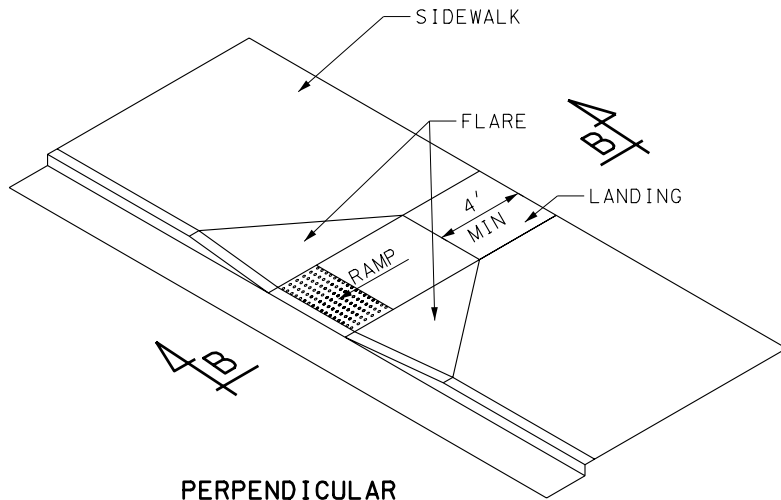
BARRIER SLOT DETAIL

REVISIONS				UTAH DEPARTMENT OF TRANSPORTATION				STANDARD DRAWING TITLE			
1	08/26/04	B.A.	CORRECTED PLAN ELEVATION DETAIL FOR DIMENSION ERROR.	STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION				PRECAST CONCRETE HALF BARRIER STANDARD SECTION			
				SALT LAKE CITY, UTAH							
				RECOMMENDED FOR APPROVAL							
				CHAIRMAN STANDARDS COMMITTEE							
				APPROVED							
				DEPUTY DIRECTOR							
				DATE				DATE			
				APPR.				REMARKS			

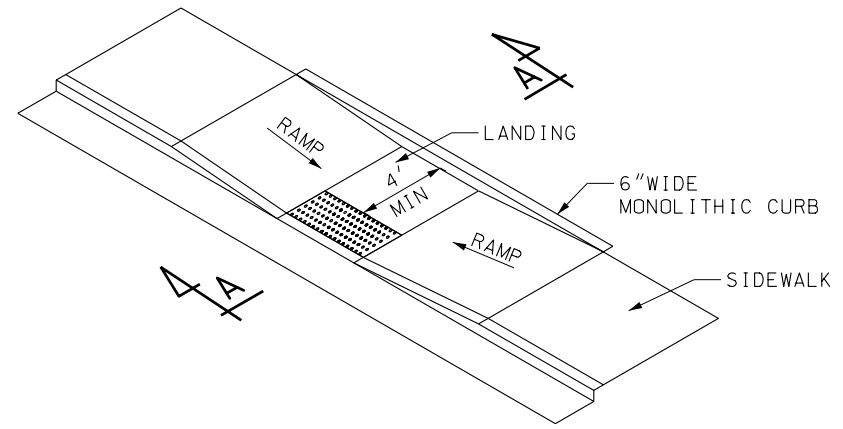
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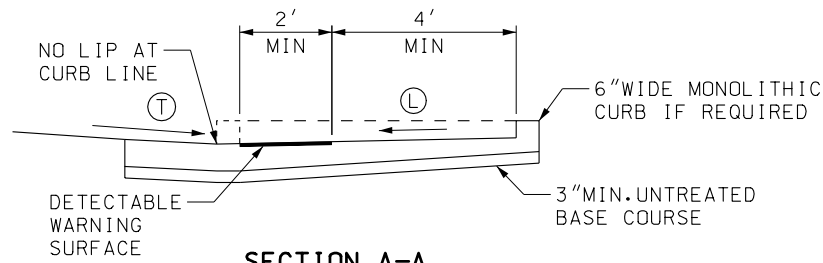
**PERPENDICULAR
PEDESTRIAN RAMP**
FLARE IS ACCEPTABLE IN
LIEU OF FULL HEIGHT CURB
SEE LOCAL AGENCY REQUIREMENTS



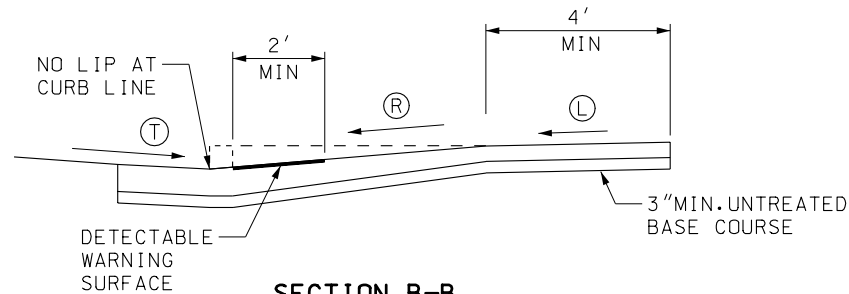
**PERPENDICULAR
PEDESTRIAN RAMP**



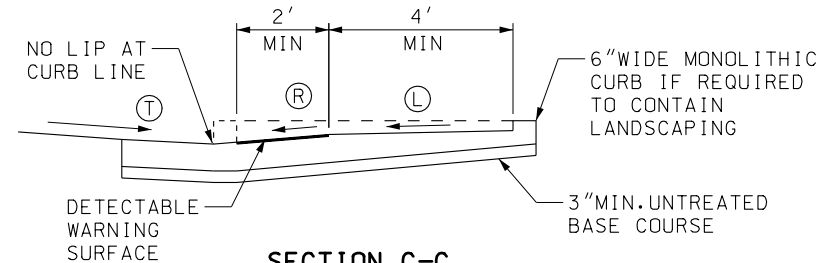
**PARALLEL
PEDESTRIAN RAMP**



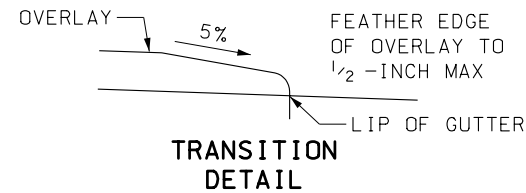
SECTION A-A



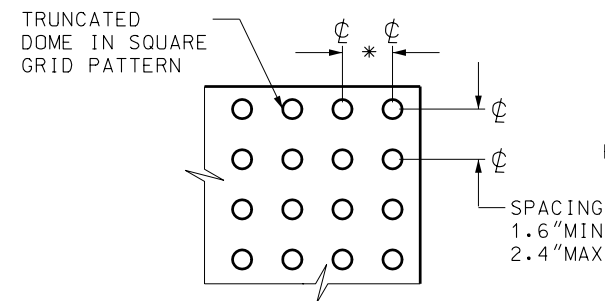
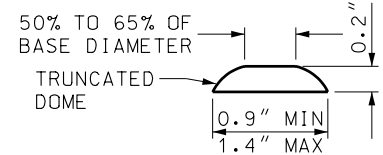
SECTION B-B



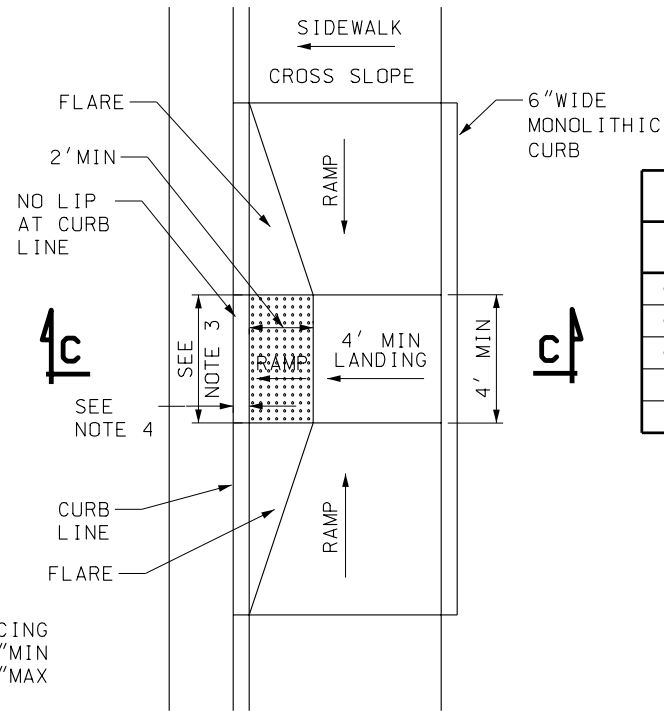
SECTION C-C



**TRANSITION
DETAIL**



**DETECTABLE WARNING SURFACE
DETAIL A**



**PEDESTRIAN ACCESS
RAMP DETAIL**

SLOPE TABLE			
	ITEM	MAX. RUNNING SLOPE *	MAX. CROSS SLOPE *
(L)	LANDING	2% (1V:48H) (b)	2% (1V:48H) (b)
(R)	RAMP	8.33% (1V:12H) (c)	2% (1V:48H) (d)
(T)	TRANSITION	5% (1V:20H) (a)	2% (1V:48H) (d)
	SIDEWALK	--	2% (1V:48H)
	FLARE	10% (1V:10H)	--

* RUNNING SLOPE IS IN THE DIRECTION OF
PEDESTRIAN TRAVEL, WHILE CROSS SLOPE
IS PERPENDICULAR TO PEDESTRIAN TRAVEL.

- (a) TRANSITION RUNNING SLOPE NEEDS TO BE
CONSTANT ACROSS ENTIRE CURB CUT. WARP
GUTTER PAN TO MEET REQUIRED TRANSITION
SLOPE AT CURB CUT.
- EXCEPTION:
- (b) SLOPE REQUIREMENTS DO NOT APPLY AT
MID-BLOCK CROSSINGS.
- (c) PARALLEL RAMPS ARE NOT REQUIRED TO EXCEED
15-FEET IN LENGTH.
- (d) CROSS SLOPE REQUIREMENT DOES NOT APPLY
AT PERPENDICULAR RAMP MID-BLOCK CROSSING.

NOTES:

1. CONFIGURATION OF RAMPS AND LANDINGS MAY BE CHANGED
BUT MUST MEET PEDESTRIAN RAMP DIMENSION AND SLOPE
REQUIREMENTS. SPECIFIC SITE CONDITIONS WILL VARY.
THE USE OF FLARES, CURBWALLS, ETC. ARE AT THE
DISCRETION OF THE ENGINEER.
2. PERPENDICULAR AND PARALLEL PEDESTRIAN RAMPS SHOWN ON
THIS DRAWING ARE ACCEPTABLE FOR USE AT MID BLOCK OR
CORNER INSTALLATIONS. REFER TO STD DWG GW 5B AND
GW 5C FOR EXAMPLES OF CORNER INSTALLATIONS.
3. PROVIDE DETECTABLE WARNING SURFACE FOR FULL WIDTH OF
RAMP, LANDING, OR CURB CUT. SEE DETAIL A FOR
DETECTABLE WARNING SURFACE DIMENSIONS.
4. LOCATE DETECTABLE WARNING SURFACE SO THAT THE EDGE
NEAREST THE STREET IS 6" TO 8" FROM THE CURB
LINE.
5. PROVIDE DETECTABLE WARNING SURFACE THAT CONTRASTS
WITH ADJACENT WALKING SURFACE, EITHER LIGHT-ON-DARK
OR DARK-ON-LIGHT. ACCEPTABLE COLORS INCLUDE: RED,
BLACK, OR YELLOW.
6. USE CLASS AA(AE) CONCRETE.
7. USE UNTREATED BASE COURSE UNDER ALL CONCRETE FLATWORK.

REVISIONS

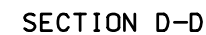
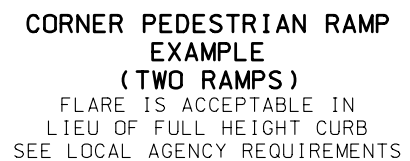
NO.	DATE	APPR.	REMARKS
1	08/26/04	BA	NEW DRAWING

UTAH DEPARTMENT OF TRANSPORTATION
STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION
SALT LAKE CITY, UTAH

RECOMMENDED FOR APPROVAL	DATE
CHAIRMAN STANDARDS COMMITTEE	AUG. 26, 2004
APPROVED	DATE
DEPUTY DIRECTOR	AUG. 26, 2004

PEDESTRIAN ACCESS

STD DWG
GW 5A



1. REFER TO STD DWG GW 5A FOR PEDESTRIAN ACCESS RAMP DETAIL AND SLOPE REQUIREMENTS.
2. PROVIDE DETECTABLE WARNING SURFACE FOR FULL WIDTH OF RAMP, LANDING, OR CURB CUT. SEE DETAIL A ON STD DWG GW 5A FOR DETECTABLE WARNING SURFACE DIMENSIONS.
3. LOCATE DETECTABLE WARNING SURFACE SO THAT THE EDGE NEAREST THE STREET IS 6" TO 8" FROM THE CURB LINE.
4. WHEN DETECTABLE WARNING SURFACE IS CUT, GRIND REMAINING PORTION OF ANY CUT DOMES. SEAL ALL CUT PANEL EDGES TO PREVENT WATER DAMAGE.
5. LOCATE CURB CUT WITHIN CROSSWALK.
6. WARP FLATWORK TO MATCH TOP OF CURB AND SIDEWALK.

[illegible]

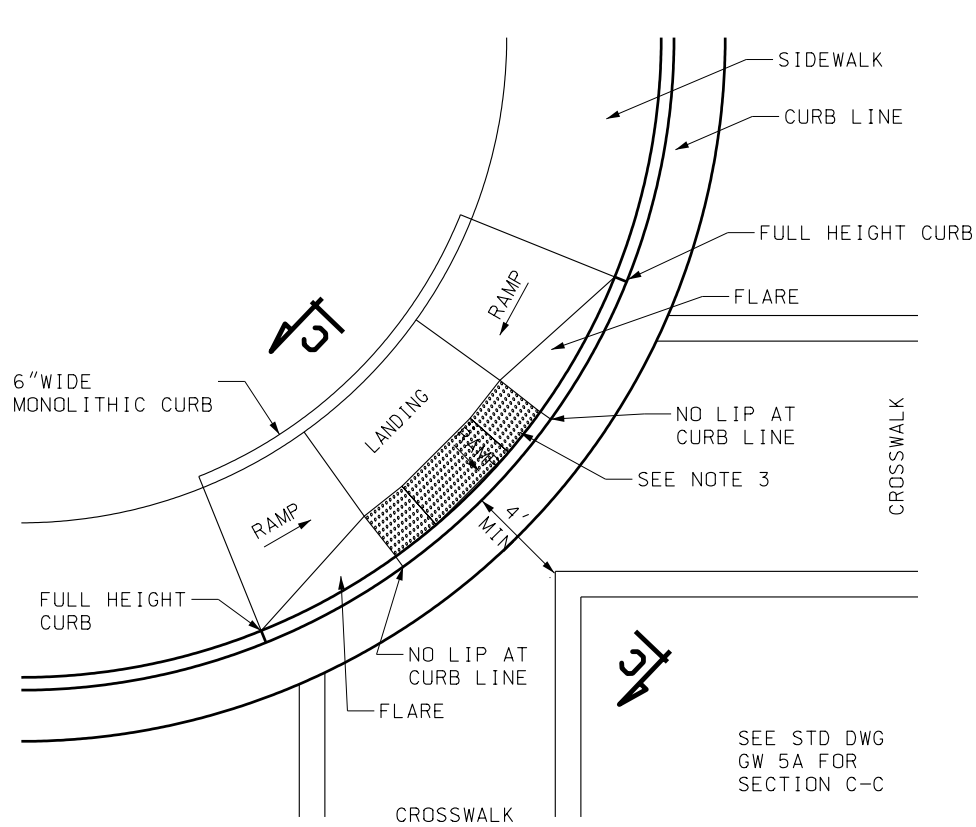
UTAH DEPARTMENT OF TRANSPORTATION
STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION
SALT LAKE CITY, UTAH

RECOMMENDED FOR APPROVAL	AUG.26,2004
CHAIRMAN STANDARDS COMMITTEE APPROVED	DATE
SECURITY DIRECTOR	AUG.26,2004
	DATE

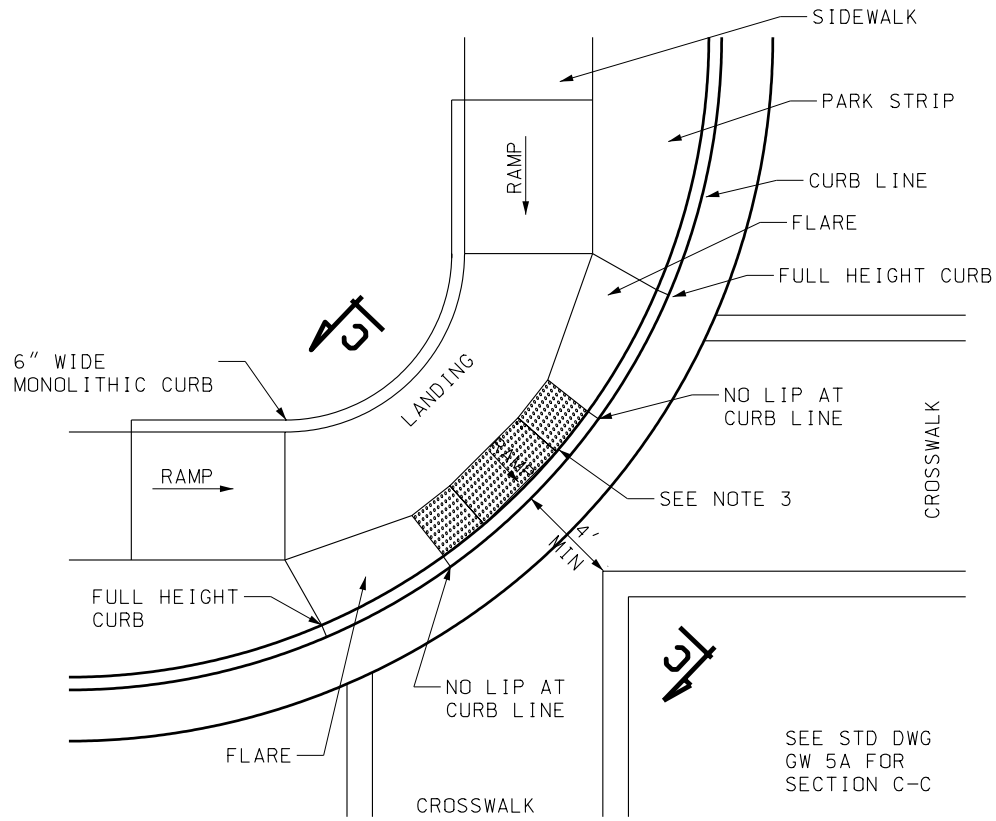
PEDESTRIAN ACCESS

STD DWG
GW 5B

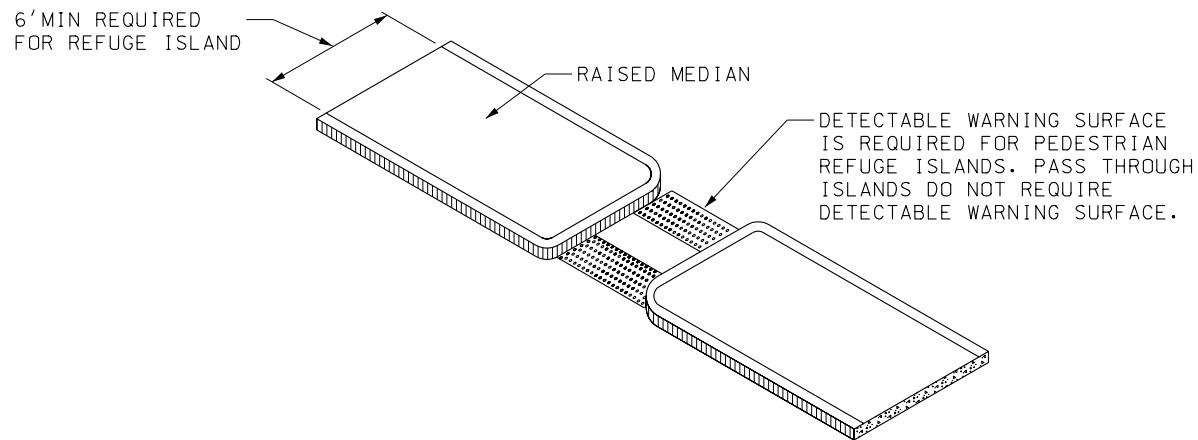
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CORNER PEDESTRIAN RAMP
EXAMPLE



CORNER PEDESTRIAN RAMP
EXAMPLE



MEDIAN BREAK
EXAMPLE

NOTES:

1. REFER TO STD DWG GW 5A FOR PEDESTRIAN ACCESS RAMP
DETAIL AND SLOPE REQUIREMENTS.
2. PROVIDE DETECTABLE WARNING SURFACE FOR FULL WIDTH OF RAMP,
LANDING, OR CURB CUT. SEE DETAIL A ON STD DWG GW 5A FOR
DETECTABLE WARNING SURFACE DIMENSIONS.
3. LOCATE DETECTABLE WARNING SURFACE SO THAT THE EDGE
NEAREST THE STREET IS 6" TO 8" FROM THE CURB LINE.
4. WHEN DETECTABLE WARNING SURFACE IS CUT, GRIND REMAINING
PORTION OF ANY CUT DOMES. SEAL ALL CUT PANEL EDGES TO
PREVENT WATER DAMAGE.
5. LOCATE CURB CUT WITHIN CROSSWALK.

REVISIONS

NO.	DATE	APPR.	REMARKS
1	08/26/04	BA	NEW DRAWING

UTAH DEPARTMENT OF TRANSPORTATION
STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION
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DEPUTY DIRECTOR	AUG.26.2004	DATE

PEDESTRIAN ACCESS

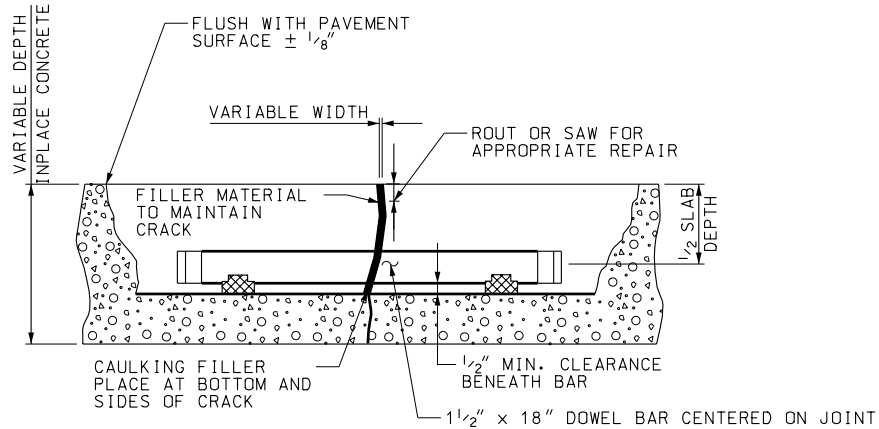
STANDARD DRAWING TITLE

STD DWG
GW 5C

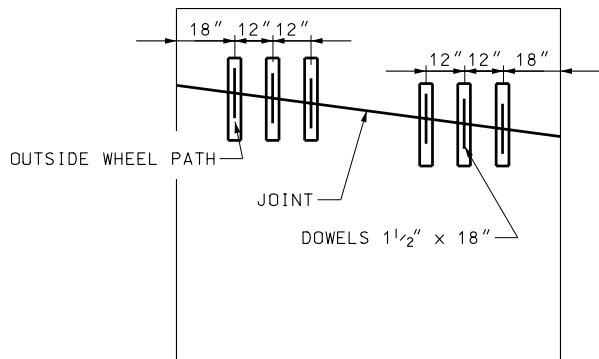
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DOWEL BAR RETROFIT

DESCRIPTION: THIS REPAIR IS INTENDED TO BE USED TO ESTABLISH/RESTORE LOAD TRANSFER AT JOINTS

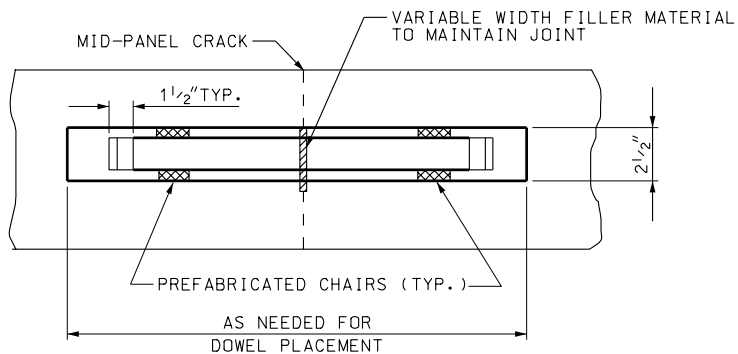


TYPICAL RETROFIT DOWEL LAYOUT (FOR JOINT)

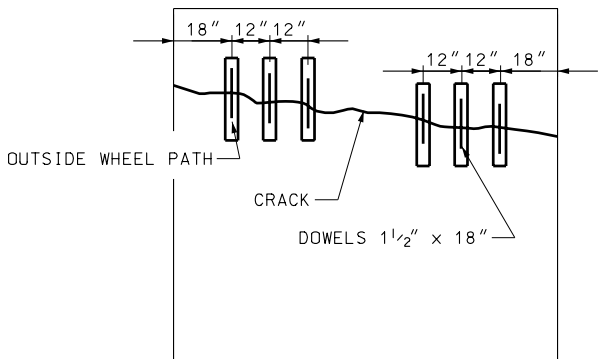


TYPICAL LANE

PROVIDE DOWEL BARS PARALLEL TO THE CENTERLINE AND TO THE PAVEMENT SURFACE. LIMIT DEVIATIONS FROM PARALLEL TO 1/4" IN THE LENGTH OF THE DOWEL BARS.



TYPICAL RETROFIT DOWEL LAYOUT (FOR MID-PANEL CRACK)



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DEPUTY DIRECTOR

DOWEL BAR RETROFIT

STANDARD DRAWING TITLE

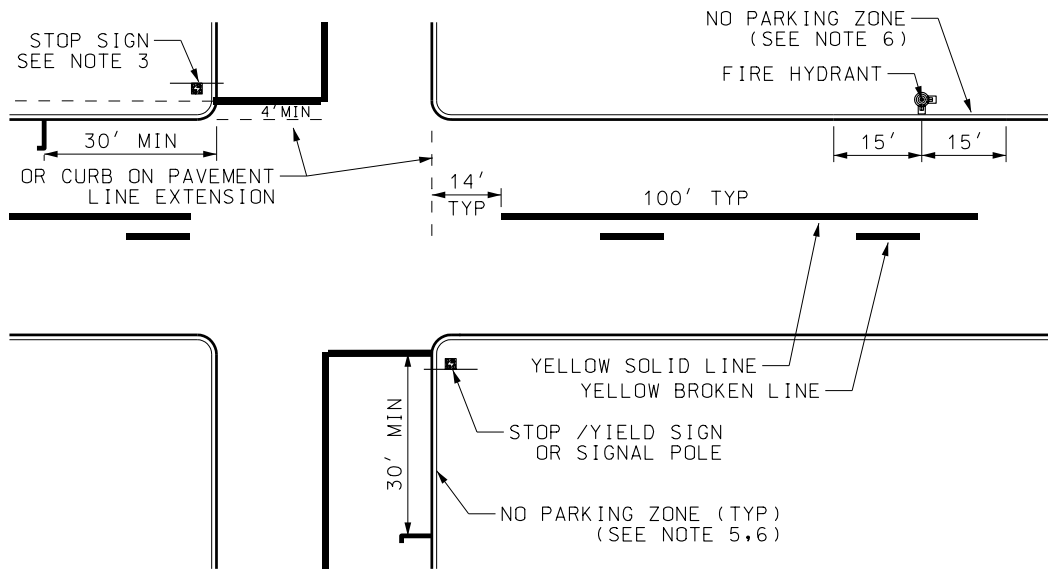
STD DWG
PV 9

REVISIONS

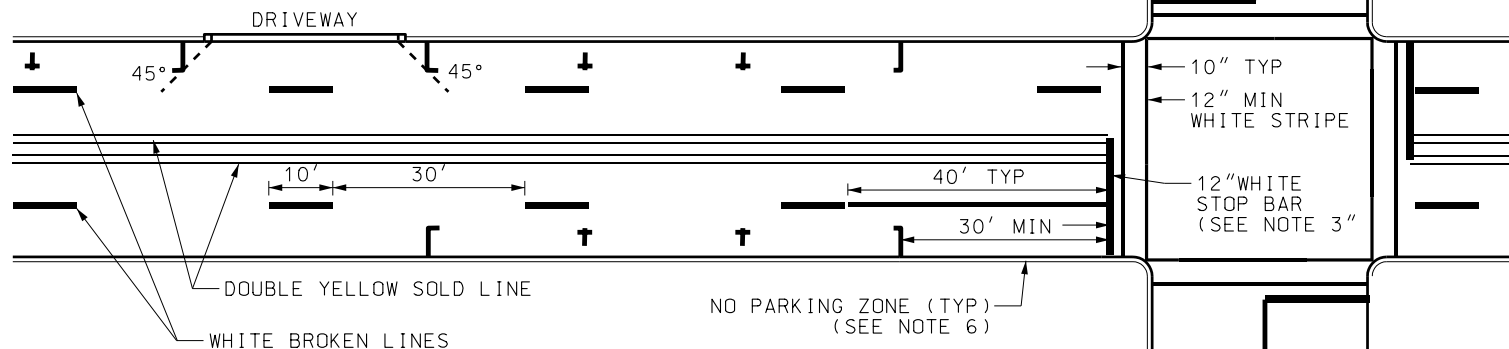
1 08/26/04 B.A. NEW DRAWING

REMARKS

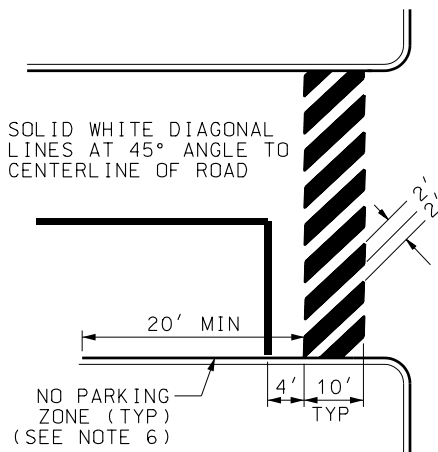
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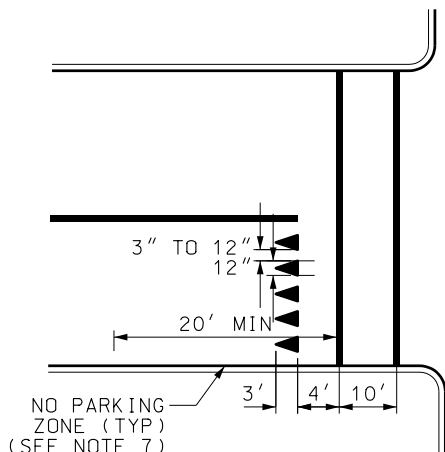
2 LANE ROADWAY



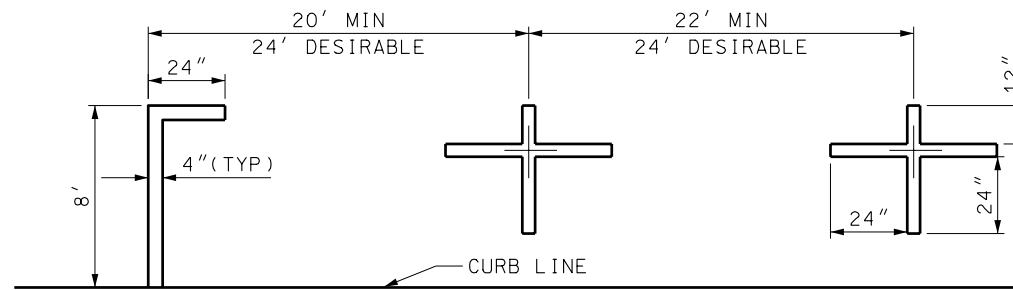
4 LANE ROADWAY



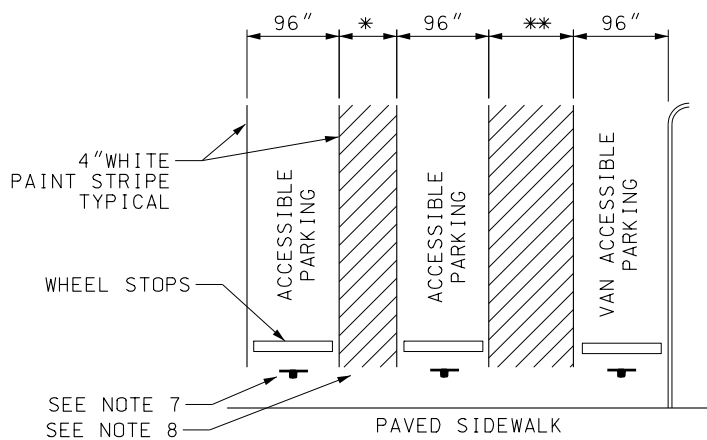
SPECIAL EMPHASIS CROSSWALK
(SEE NOTE 2)



TYPICAL YIELD MARKINGS



STANDARD PARALLEL PARKING



PARKING LOT STRIPING FOR
RESERVED ACCESSIBLE PARKING

* 60" MIN. FOR ACCESSIBLE PARKING
** 96" MIN. FOR VAN ACCESSIBLE PARKING.
PROVIDE ONE VAN ACCESSIBLE STALL FOR
EVERY EIGHT ACCESSIBLE STALLS.

DETAIL B



RESERVED ACCESSIBLE
PARKING SIGNING

SEE NOTE 7

NOTES:

1. THE REGION TRAFFIC ENGINEER DETERMINES THE NUMBER AND LOCATIONS OF CROSSWALKS AT AN INTERSECTION.
2. THE REGION TRAFFIC ENGINEER DETERMINES WHEN TO USE THE "SPECIAL EMPHASIS" CROSSWALK.
3. PLACE THE STOP OR YIELD LINE AT DESIRED STOPPING POINT WHEN THERE IS NOT A CROSSWALK.
4. USE A WIDER STOP OR YIELD LINE ONLY WHEN APPROVED BY THE REGION TRAFFIC ENGINEER.
5. ESTABLISH A "NO PARKING" ZONE 30' PRIOR TO FLASHING SIGNAL, STOP SIGN, YIELD SIGN, OR TRAFFIC CONTROL SIGNAL PLACED ON THE SIDE OF ROADWAY.
6. RED CURB MARKING IS OPTIONAL FOR "NO PARKING" ZONE.
7. PROVIDE RESERVED PARKING SIGNING (R7-8) FOR ACCESSIBLE PARKING SPACES. INCLUDE "VAN ACCESSIBLE" PLAQUE (R7-8A) FOR VAN PARKING SPACES.
8. BLEND ACCESS AISLE WITH PAVED SIDEWALK OR PEDESTRIAN RAMP FOR SMOOTH ELEVATION TRANSITION.
9. MARKINGS SHOWN ARE TYPICAL FOR STOP OR SIGNAL CONTROL. USE SIMILAR DISTANCES AND APPROPRIATE MARKINGS FOR YIELD CONTROL.

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APPROVED

DEPUTY DIRECTOR

AUG. 26, 2004
DATE

AUG. 26, 2004
DATE

CROSSWALKS, PARKING
AND INTERSECTION
APPROACHES

STANDARD DRAWING TITLE

STD DWG
ST 4

REVISIONS

1 04/07/04 G.S. CHANGE SKIP LINE TO BROKEN LINE IN DETAILS
TO BE CONSISTENT WITH MUTCD.

2 08/03/04 JLL ADDED ACCESSIBLE PARKING DETAILS AND NOTES

REMARKS